

IN THE CLAIMS:

1. (Currently Amended) A bridge fitting for use in a fluid manifold system for being in fluid communication with ~~two~~ one or more surface mount fluid components, ~~such as valves, regulators, pressure transducers, mass flow controllers, and the like,~~ the bridge fitting comprising:
- a first fitting end ~~and connected to~~ a second fitting end, with said ~~connected~~ first and second fitting ends fittings having ~~an internal~~ a fluid passageway ~~therebetween~~ therethrough; said internal fluid passageway of said bridge fitting having a first ~~an~~ inlet end and ~~an outlet~~ a second end, with said first ~~inlet~~ end in fluid communication connectable with a ~~an~~ outlet port of the first a first fluid component, and said fluid passageway second outlet end of said bridge fitting in fluid communication connectable with an ~~inlet~~ a port of a second fluid component; said fluid passageway first and second ends having a respective port associated therewith, said first and second ports being formed in respective surfaces that are coplanar with each other.
2. (Currently Amended) The bridge fitting of claim 1 further comprising a plurality of metallic seals ~~interposed between and disposed for sealing the~~ said internal passageway of the bridge fitting at said ports ~~with ports the port of the fluid component.~~
3. (Currently Amended) The bridge fitting of claim 1 wherein ~~the bridge fitting~~ said fluid passageway is generally has a U shaped fluid passageway.
- 4-28. Canceled.
29. (New) The fitting of claim 1 wherein said ports are recessed from said coplanar surfaces.
30. (New) The fitting of claim 29 wherein each said port is formed in a counterbore in its respective surface.
31. (New) The fitting of claim 30 comprising a seal adapted to be partially received in said counterbore.
32. (New) The fitting of claim 31 wherein said seal is metal, polymer or elastomer.

33. (New) The fitting of claim 1 comprising first and second elbows connected to form a unitary structure.
34. (New) The fitting of claim 1 comprising a channel block that receives said bridge fitting in a groove formed in a mounting surface of said channel block; said coplanar surfaces of the bridge fitting being substantially coplanar with said mounting surface.
35. (New) The fitting of claim 1 wherein said respective surfaces are generally flat.
36. (New) The fitting of claim 1, wherein said first and second ends comprise a block member with said respective fluid paths passing therethrough; and wherein said third fluid path is formed in a generally tubular member extending between said first and second end block members.
37. (New) The fitting of claim 36, wherein the ports of said first and second ends are formed in coplanar surfaces of said first and second end block members.
38. (New) The fitting of claim 36, wherein the fluid path through each of said first and second ends flows is generally concentric to said third fluid path at a connection point between said fluid paths through each of said first and second ends and said third fluid path and wherein said fluid paths through each of said first and second ends are generally perpendicular to said third fluid path at each of said respective ports.
39. (New) A bridge fitting for a modular fluid system, the fitting comprising:
- first and second ends, each said end having a respective fluid path that terminates at a respective port; said first and second fluid paths being in fluid communication with each other;
- each said port being formed in a respective surface with said respective surfaces being coplanar with respect to each other; each said respective surface being formed as part of a counterbore of another surface.
40. A modular flow system comprising:
- two or more surface mount components; and

at least one fitting connecting two of said two or more surface mount components in fluid communication;

wherein said at least one fitting comprises a first end connected to a second end, with said connected ends having a fluid passageway therethrough; said fluid passageway of said fitting having a first end and a second end, with said first end in fluid communication with a port of the first fluid component, and said second end of said fitting in fluid communication with a port of a second fluid component; said fluid passageway first and second ends having a respective port associated therewith, said ports being formed in coplanar surfaces.

41. (New) A modular flow system comprising:

two or more surface mount components; and

at least one bridge fitting connecting two of said two or more surface mount components;

wherein said bridge fitting comprises first and second ends, each said end having a respective fluid path that terminates at a respective port; said first and second fluid paths being connected by a third fluid path;

each said port being formed in a respective surface with said respective surfaces being coplanar with respect to each other; each said respective surface being formed as part of a counterbore of another surface.